

1 1. In a system including a legacy system having clinical information, wherein
2 the clinical information is stored in a data repository, wherein the clinical information is
3 not normalized and not in a standard format, a method for mapping the clinical information
4 to a health data dictionary such that the clinical information is normalized and in a standard
5 format, the method comprising:

- 6 an act of receiving insurance information from the legacy system;
7 an act of searching content of the health data dictionary for a match to the
8 received insurance information; and
9 an act of identifying a match for the insurance information.

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11 2. A method as defined in claim 1, further comprising an act of identifying a
12 best match for the insurance information when the match is a partial match.

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14 3. A method as defined in claim 1, further comprising an act of displaying
15 insurance concepts to a user.

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17 4. A method as defined in claim 1, further comprising an act of creating a new
18 insurance concept when the match is not found.

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20 5. A method as defined in claim 1, further comprising an act of creating a new
21 representation for an existing insurance concept stored in the health data dictionary.

1 6. A method as defined in claim 1, wherein the act of searching content of the
2 health data dictionary further comprises an act of comparing the insurance information with
3 insurance tables in the health data dictionary.
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5 7. A method as defined in claim 6, wherein the insurance tables include
6 synonym tables, the synonym tables including at least one of misspellings of insurance
7 data, abbreviations of insurance data, spellings of insurance data, and formats of insurance
8 data.
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1 8. In a system including a legacy system storing insurance information in a
2 data repository, wherein the insurance information is not normalized and is not in a
3 standard form, a method for mapping the insurance information to a normalized and
4 standard form, the method comprising:

5 a step for receiving the insurance information from the legacy system;

6 a step for changing the insurance information using existing content of a
7 health data dictionary, wherein the content of the health data dictionary includes
8 standard insurance information associated with concept identifiers; and

9 a step for storing the changed insurance information in the data repository
10 with the concept identifiers that correspond to the changed insurance information.
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12 9. A method as defined in claim 8, wherein the step for changing the insurance
13 information further comprises a step for searching the standard insurance information,
14 wherein the standard insurance information is stored in insurance tables of the health data
15 dictionary.
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17 10. A method as defined in claim 8, wherein the step for changing the insurance
18 information further comprises a step for identifying a match for the insurance information.
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20 11. A method as defined in claim 10, wherein the match is an exact match.
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22 12. A method as defined in claim 10, wherein the match is a partial match,
23 wherein the partial match is identified according to a probability.
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1 13. A method as defined in claim 10, further comprising a step for selecting a
2 best match for the insurance information.

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4 14. A method as defined in claim 8, wherein the step for changing the insurance
5 information further comprises:

6 a step for comparing the insurance information with synonym tables
7 included in the insurance tables of the health data dictionaries, the synonym tables
8 including misspellings of the insurance data, abbreviations of the insurance data
9 and different formats of the insurance data; and

10 a step for correcting the insurance information to the standard insurance
11 information identified by the match.

1 15. In a system including a legacy system having clinical data including
2 pharmaceutical data, wherein the pharmaceutical data is not normalized and is not in a
3 standard format, a method for mapping the pharmaceutical data to a health data dictionary,
4 wherein the health data dictionary has content including pharmaceutical content in a
5 standard form, the method comprising:

6 an act of receiving the pharmaceutical data from the legacy system, wherein
7 the pharmaceutical data has characteristics including a name, a strength, a form, a
8 route, an interface code, and ingredient information, wherein the characteristics
9 identify a compound;

10 and act of searching the health data dictionary according to the
11 characteristics of the compound; and

12 an act of selecting a match for the compound such that the compound is in
13 the standard form.
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15 16. A method as defined in claim 15, wherein the act of receiving the
16 pharmaceutical data further comprises an act of receiving national drug codes for the
17 ingredients.
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19 17. A method as defined in claim 15, wherein the act of receiving the
20 pharmaceutical data further comprises an act of receiving generic sequence numbers for
21 the compound.
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23 18. A method as defined in claim 15, wherein the act of searching the health
24 data dictionary further comprises an act of comparing the characteristics of the compound

1 to standard characteristics of a standard compound stored in pharmacy tables of the health
2 data dictionary.

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4 19. A method as defined in claim 18, wherein the match is an exact match with
5 a standard compound.

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7 20. A method as defined in claim 18, wherein the match is a partial match with
8 a standard compound.

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10 21. A method as defined in claim 20, further comprising an act of creating a
11 new pharmacy entry in the pharmacy tables of the health data dictionary for an unmatched
12 compound.

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14 22. A method as defined in claim 15, further comprising an act of providing a
15 list of ingredients to select from when the national drug codes are not provided.

1 23. In a system including a legacy system sending clinical data including
2 pharmaceutical data to a data repository for storage, wherein the clinical data is not in a
3 standard format and is not normalized, a method for mapping the clinical data such that the
4 clinical data is normalized with a health data dictionary, the method comprising:

5 a step for identifying characteristics of the pharmaceutical data at the legacy
6 system, wherein the characteristics include a drug name, a strength, a form, an
7 interface code, and one or more ingredient identifiers.

8 a step for comparing the characteristics of the pharmaceutical data with
9 standard characteristics standard characteristics of the pharmaceutical data, the
10 standard characteristics stored in pharmacy tables of the health data dictionary; and

11 a step for selecting a match for the pharmaceutical data provided by the
12 legacy system such that the pharmaceutical data is normalized.

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14 24. A method as defined in claim 23, wherein the step for identifying
15 characteristics further comprises a step for identifying a route for the pharmaceutical data.

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17 25. A method as defined in claim 23, wherein the step for selecting a match
18 further comprises a step for selecting an exact match.

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20 26. A method as defined in claim 23, wherein the step for selecting a match
21 further comprises a step for identifying a partial match for the pharmaceutical data.

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1 27. A method as defined in claim 23, wherein the step for identifying
2 characteristics further comprises a step for identifying national drug codes for the
3 ingredients.

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5 28. A method as defined in claim 23, wherein the step for identifying
6 characteristics further comprises a step for identifying generic sequence numbers for the
7 pharmaceutical data.

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9 29. A method as defined in claim 23, further comprising a step for inserting a
10 representation for the pharmaceutical data in the health data dictionary.

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12 30. A method as defined in claim 23, further comprising a step for enforcing
13 rules and constraints of the health data dictionary.

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15 31. A method as defined in claim 23, further comprising a step for modifying a
16 pharmaceutical concept without the national drug code.

1 32. In a computerized system that includes a legacy system, a health data
2 dictionary, and a data repository, wherein the legacy system provides clinical data for
3 storage in the data repository and wherein the clinical data is not normalized, a computer
4 program product for implementing a method of mapping the clinical data with the health
5 data dictionary to normalize the clinical data before storing the clinical data in the data
6 repository, the computer program product comprising:

7 a computer readable medium for carrying machine-executable instructions
8 for implementing the method, wherein the method is comprised of machine-
9 executable instructions for performing:

10 an act of receiving insurance information from the legacy system;

11 an act of searching content of the health data dictionary for a match
12 to the received insurance information; and

13 an act of identifying a match for the insurance information.
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1 33. In a computerized system that includes a legacy system, a health data
2 dictionary, and a data repository, wherein the legacy system provides clinical data for
3 storage in the data repository and wherein the clinical data is not normalized, a computer
4 program product for implementing a method of mapping the clinical data with the health
5 data dictionary to normalize the clinical data before storing the clinical data in the data
6 repository, the computer program product comprising:

7 a computer readable medium for carrying machine-executable instructions
8 for implementing the method, wherein the method is comprised of machine-
9 executable instructions for performing:

10 an act of receiving the pharmaceutical data from the legacy system,
11 wherein the pharmaceutical data has characteristics including a name, a
12 strength, a form, a route, an interface code, and ingredient information,
13 wherein the characteristics identify a compound;

14 and act of searching the health data dictionary according to the
15 characteristics of the compound; and

16 an act of selecting a match for the compound such that the
17 compound is in the standard form.